Approved For Release 2008/03/12 : CIA-RDP78B04558A001500010053-7

TOP SECRET

PRIORITY

OUT60416

P 172319Z
FM NPIC

1966 NOV 18 00 51Z

25X1

AFSSO PACAF
AFSSO ACIC
AFSSO FTD
AFSSO USAFE
CNO
OPCEN

25X1

ZEM
T O P S E C R E T.

25X1

CITE NPIC 9080.

SUBJECT: CAMERA INFORMATION FOR MISSION 1037-1.

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

A. MAIN UNITS	FORWARD	AFT	STAR HOR	PORT HOR
FOCAL LENGTHS (MM)	609.628	609.628	FWD55.000	FWD54.960
			AFT55.000	AFT55.000
FILTER (WRATTEN NO.)	23A	21	25	25
APERTURE	F3.5	F3.5	F8.0	F6.3
SLIT WIDTH (IN)	.225	.175	1/100	1/100
EXPOSURE (SEC)				
FILM	3404	3404	3404	3404
RESOLUTION (L/MM)	184	209	NA	NA

B. S/I UNITS	STELLAR	INDEX
FOCAL LENGTH(MM) PART 1	84.0081	38.2428

18 NOV 1966

DISTRIBUTION

Cy No.	Office	Action
2	File	
	OS	
	SEC BR	
	TDS	
	CSD	
	IPD	
	PD	
	PSD	
	PSD-ICB	
	TID	✓
	IAD	
	PAG	
	DIAXX-4	
	SPAD	
	NSA-LO	
	DIA-AP	

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	PART 2	83.7718	38.2961
FILTER (WRATTEN NO.)		NONE	21
APERTURE		F1.8	F4.5
EXPOSURE (SEC)		1.0	1/500 SEC
FILM		3401	3400
RESOLUTION (L/MM)	PART 1		74
	PART 2		73
UNIT NUMBER	PART 1	D101/128/124	
	PART 2	D106/136/134	

3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN UNITS	3	2	1	0	359	358	357
FWD UNIT	.002	.000	.000	.000	.000	.001	.002
AFT UNIT	.002	.001	.000	.000	.001	.002	.003

B. HORIZON CAMERAS (MM)	FWD		AFT	
	PORT	STAR	PORT	STAR
(RADIAL) 10 DEGREES	.020	.010	.010	.020
20 DEGREES	.060	.030	.050	.050
(TANGENTIAL) MAX VECTOR	.015	.015	.030	.030

4. CAMERA ANGLES

		DEG.	MIN.
A. ANGLE BETWEEN PAN CAMERAS		29	47.77
B. DEPRESSION ANGLE BETWEEN HORIZON AND PAN CAMERAS	FWD STAR	15	12.7
	FWD PORT	14	42.9
	AFT STAR	14	38.1
	AFT PORT	14	39.1

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C. ANGLE BETWEEN STELLAR AND INDEX CAMERAS	PART 1	89	58.6
	PART 2	89	50.9

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV), AND PASSES WHERE USED).

REF. LEVEL		AMPL. LEVEL		PASSES
NO. CPS.	GAV.	NO. CPS.	GAV.	
4 .3856	.0349	6 .0847	.0077	1D1 THRU 11D1
4 .3856	.0349	5 .0992	.0090	15D1 THRU 29D1
4 .3856	.0349	3 .1320	.0119	31D1 THRU 61D1
3 .4020	.0364	4 .1155	.0104	64D1

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZULU TIME) DAY	HR	MIN	SEC	PROGRAM ON TIME UP RAMP SEC	PROGRAM DURATION SEC
1D1	8	21	14	23	642	40
2D1	8	23	15	42	2692	39
3D1	9	0	37	20	2220	41
4D1	9	1	50	57	1273	69
4D2	9	2	6	37	2214	116
5D1	9	3	18	48	1217	204
6D1	9	4	49	36	1299	164
6D2	9	4	52	50	1493	245

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7D 1	9	6	22	16	1492	246
7D2	9	6	26	48	1764	126
7D3	9	6	29	21	1917	84
8AE 1	9	7	27	26	37	45
8D 1	9	7	46	8	1158	88
8D2	9	7	50	33	1423	39
9D 1	9	9	16	34	1219	190
9D2	9	9	27	38	1883	189
11D 1	9	12	24	29	1764	153
15D 1	9	18	22	41	1802	101
16D 1	9	19	48	16	1574	62
20D 1	10	2	0	21	2444	230
22D 1	10	4	40	41	1339	308
22D2	10	4	47	47	1765	118
23D 1	10	6	13	12	1527	199
24D 1	10	7	37	13	1207	88
25D 1	10	9	9	23	1374	81
25D2	10	9	18	39	1930	200
26D 1	10	10	38	57	1387	205
29D 1	10	15	31	37	2864	124
31D 1	10	18	13	33	1728	91
32D 1	10	19	39	36	1529	28
37D 1	11	3	1	32	1247	173
38D 1	11	4	32	26	1342	514

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39D 1	11	6	5	42	1581	250
40D 1	11	7	32	9	1409	83
41D 1	11	8	57	30	1173	175
42D 1	11	10	34	9	1613	67
42D2	11	10	36	2	1727	25
45D 1	11	15	8	2	1972	92
45D2	11	15	12	42	2252	92
47D 1	11	17	59	13	1528	44
47D2	11	18	3	34	1789	78
48D 1	11	19	28	46	1543	88
52D 1	12	1	36	26	2179	71
52D2	12	1	39	31	2364	73
52D 3	12	1	41	58	2511	148
53D 1	12	2	51	2	1300	114
54D 1	12	4	21	40	1382	91
55D 1	12	5	54	47	1614	75
56D 1	12	7	21	23	1454	88
57D 1	12	8	46	45	1222	36
57D2	12	8	49	36	1393	89
58D 1	12	10	27	24	1906	83
59D 1	12	11	55	21	1828	113
61D 1	12	14	58	24	2104	55
61D2	12	15	6	26	2586	92
64D 1	12	19	18	10	1687	27

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NOTE: ABOVE DATA APPLIES TO FWD UNIT ONLY. ADD 12 SECONDS TO OBTAIN START TIMES OF AFT UNIT.

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
7	477799.999	21329.1805	------
16	527743.848	71273.0234	.006
23	26858.6840	20858.7669	.004
32	76625.4570	70625.5336	.006
40	117904.527	25504.5984	.005
48	162400.134	70000.1996	.006
56	203667.743	24867.8032	.005
64	248199.619	69399.6733	.006

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

9. REMARKS: MISSION 1037 IS SECOND IN A SERIES OF MISSIONS EMPLOYING PANORAMIC GEOMETRY.

GP-1

T O P S E C R E T

-END OF MESSAGE-

25X1

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